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(71)Applicant : ASAHI CHEM IND CO LTD

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(54) POLYMER ELECTROLYTE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide high ion conductivity and an excellent mechanical physical property by containing a residual isocyanate monomer reacted with diisocyanate and polyether polyol A at a specific ratio and having specific concentration, polyisocyanate constituted of polyether polyol and isocyanate group, and inorganic salt or ammonium salt.

SOLUTION: Aliphatic diisocyanate having the carbon number of 4-30 and polyether A having the hydroxyl group average functional group number of 2-6 preferably react to each other at 60-200° C at the isocyanate group/hydroxyl group equivalence ratio of 5/1-100/1. The concentration of the diisocyanate monomer, polyether polyol A, and isocyanate group in the polyisocyanate obtained after the unreactive diisocyanate and solvent are removed is set to 0-5, 10-98, and 1-20wt.% respectively. The compatibility of the polyisocyanate with the polyether polyol B is improved, and the cross-linking molecular weight of an obtained cross-linking polymer is increased.

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(54) 【発明の名称】 ポリマー電解質

(57) 【要約】

【課題】 高いイオン伝導性と機械的物性を有する架橋
ポリマー電解質を提供する。

【解決手段】 ジイソシアネートとポリエーテルポリオ
ールを反応させ、未反応のジイソシアネートを除去して
得られ、かつ①残存イソシアネートモノマー濃度0～5
重量%、②ポリエーテルポリオール濃度10～98重量
%、③イソシアネート基濃度1～20重量%であるポリ
イソシアネートと、無機塩またはアンモニウム塩、を含
むポリマー電解質。